



Differential Pressure switch series D4 and D7

General purpose or Ex-proof according UL or ATEX
(EEx d or EEx ia)
Accuracy: $\pm 1\%$



Features

- Ambient temperature up to 60 °C for EEx applications
-  II 2 GD or  II 1 GD
- Class 1 Division 1 Gr. B, C and D according UL
- Protection IP54, IP66 or NEMA 4, 4X, 7, 9 and 13 (UL)
- Wetted parts available in several materials
- High static pressure up to 140 bar

Ranges

75 mbar diff. up to 42 bar diff.
30 in. H₂O up to 600 psid

Applications

Chemical and petrochemical industry
Machine and apparatus construction
Food and beverage industry
Pulp and paper industry



Technical specification	D4 series	D7 series	
Construction	Weatherproof	Ex-proof according UL CSA on request	Ex-proof according CENELEC (ATEX) EN 50 0-14, -18, -20
Switch functions Adjustable range Deadband	One setpoint, single pole double throw (SPDT) or 2 times SPDT (2SPDT) From 15 % to 100 % F.S., below 15 % consult factory From 0,5 % to 15 % F.S., depending on material, range and microswitch		
Measuring principle Range [mbar] [bar]	Diaphragm-piston-cylinder-system 75 150 250 375 1 2 4 6 7 14 28 42		
Limits (pressure ranges) Max. static pressure [bar] Proof pressure [bar]	mbar 1 to 6 bar 7 to 14 bar 28 bar 42 bar 0,37 35 69 69 138 1,5 138 276 551 551 Optional 100 bar static pressure for the ranges 1 bar and 2 bar (only diaphragm Buna N or Viton)		
Pressure type	Differential pressure		
Process connection	¼ NPT female (standard), ½ NPT male, ½ NPT female G ½ B male, M20x1,5 (metric connections with adapter), others on request		
Connection location	For mbar ranges lower and side, for bar ranges at the side		
Material Pressure connection Diaphragm Housing	Standard Nickel plated brass, optional stainless steel 316 (1.4401) or Monel For mbar ranges steel epoxy coated standard, stainless steel on request Buna N, Viton (max. 42 bar), Teflon, stainless steel 316 (1.4401) (stainless steel only from 1 to 6 bar) Aluminum, epoxy coated black		
Accuracy	1,0 % F.S.		
Electrical specification			
Microswitch ratings	Up to max. 6 A 30 VDC respectively 22 A 250 VAC (see microswitch table)		
Ex-proof	Class 1 Div. 1 Gr. B, C and D Class 2 Div. 1 Gr. E, F and G	EEx d IIC T6 Sira 02 ATEX 1391	EEx ia IIC T4 Sira 04 ATEX 2081
Intrinsically safe			
Electrical connection	¼ NPT female, optional cable glands, ½ NPT with reducer bushing, M20x1,5, others on request		
General specification			
Permissible Ambient temperature Medium temperature Storage temperature Effect	-25 ... 60 °C Buna N and Teflon -18 ... 65 °C, Viton -7 ... 150 °C, stainless steel -18 ... 150 °C (Medium temperature of ATEX approved switches is restricted due to temperature class.) -40 ... 60 °C Max. 0,4 % / 10 K ref. 20 °C		-25 ... 65 °C -20 ... 60 °C
Protection according UL Protection according EN 60 529/IEC 529	NEMA 4, 4X and 13 IP54, optional IP66	NEMA 7 and 9 IP66	
CE-mark	Low voltage regulations: EN 61 010-1, EN 60 947-1		
Mounting	Standard stem, wall (BP) or 2" pipe mounting (TM)		
Weight mbar/bar [kg]	1,2/1,6	1,7/2,0	
Accessories, options	Diaphragm seals, valves, adapters, NACE		

